

Application No.: 10/723,947

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AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listing, of claims in the application:

Claim 1 (currently amended): An isolated nucleic acid that encodes a barley or wheat ZCCT1 polypeptide ~~having at least 90% identity to the polypeptide encoded by SEQ ID NO: 75.~~

Claim 2 (previously presented): The isolated nucleic acid of claim 1 wherein said nucleic acid is operably linked to a promoter.

Claim 3 (previously presented): The isolated nucleic acid of claim 2 wherein the promoter is an inducible promoter.

Claim 4 (previously presented): The isolated nucleic acid of claim 2 wherein the promoter is a regulated promoter.

Claim 5 (previously presented): The isolated nucleic acid of claim 2 wherein the promoter is a constitutive promoter.

Claim 6 (previously presented): A vector comprising the isolated nucleic acid of claim 1.

Claim 7 (previously presented): A vector comprising the isolated nucleic acid of claim 2.

Claim 8 (previously presented): A vector comprising the isolated nucleic acid of claim 3.

Claim 9 (previously presented): A vector comprising the isolated nucleic acid of claim 4.

Claim 10 (previously presented): A vector comprising the isolated nucleic acid of claim 5.

Claim 11 (currently amended): An isolated cell comprising the vector of claim 6.

Claim 12 (currently amended): An isolated cell comprising the vector of claim 8.

Claim 13 (currently amended): An isolated cell comprising the vector of claim 9.

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Claim 14 (previously presented): The cell of claim 11 wherein said cell is a plant cell.

Claim 15 (previously presented): The cell of claim 12 wherein said cell is a plant cell.

Claim 16 (previously presented): The cell of claim 13 wherein said cell is a plant cell.

Claim 17 (previously presented): A transgenic plant comprising the isolated nucleic acid of claim 1.

Claim 18 (previously presented): The transgenic plant of claim 17 wherein said plant is selected from the group consisting of wheat, barley, rye, oats, and forage grasses.

Claim 19 (currently amended): Transgenic [[S]] seed from the transgenic plant of claim 17 comprising the nucleic acid of claim 1.

Claim 20 (previously presented): A transgenic plant comprising the isolated nucleic acid of claim 2.

Claim 21 (currently amended): Transgenic [[S]] seed from the transgenic plant of claim 20 comprising the nucleic acid of claim 2 operably linked to the promoter.

Claim 22 (previously presented): A transgenic plant comprising the isolated nucleic acid of claim 4.

Claim 23 (currently amended): Transgenic [[S]] seed from the transgenic plant of claim 22 comprising the nucleic acid operably linked to the regulated promoter of claim 4.

Claim 24 (previously presented): A method for altering a plant's response to vernalization, the method comprising: transforming a plant or plant tissue with a genetic construct comprising the isolated nucleic acid of claim 1 and inducing the expression of the genetic construct in said plant to alter said plant's response to vernalization.

Claim 25 (previously presented): A method for altering a plant's response to vernalization, the method comprising: transforming a plant or plant tissue with a genetic construct comprising the

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isolated nucleic acid of claim 2 and expressing the genetic construct in said plant to alter said plant's response to vernalization.

Claim 26 (previously presented): The method of claim 24, wherein the plant is selected from the group consisting of wheat, barley, rye, oats, and forage grasses.

Claim 27 (previously presented): The method of claim 25, wherein the plant is selected from the group consisting of wheat, barley, rye, oats, and forage grasses.

Claims 28-35 (canceled).

Claim 36 (currently amended): The isolated nucleic acid of claim 1 wherein said nucleic acid encodes the wheat polypeptide encoded by the nucleic acid selected from the group consisting of SEQ ID NO: 75, SEQ ID NO: 79, SEQ ID NO: 82 and SEQ ID NO: 85.

Claim 37 (new): The isolated nucleic acid of claim 1 wherein said nucleic acid encodes the barley polypeptide encoded by SEQ ID NO: 88 or SEQ ID NO: 91.